



Title: Sound Absorption Test Results

Product: 1" Sound Silencer

Application: Wall and Ceiling

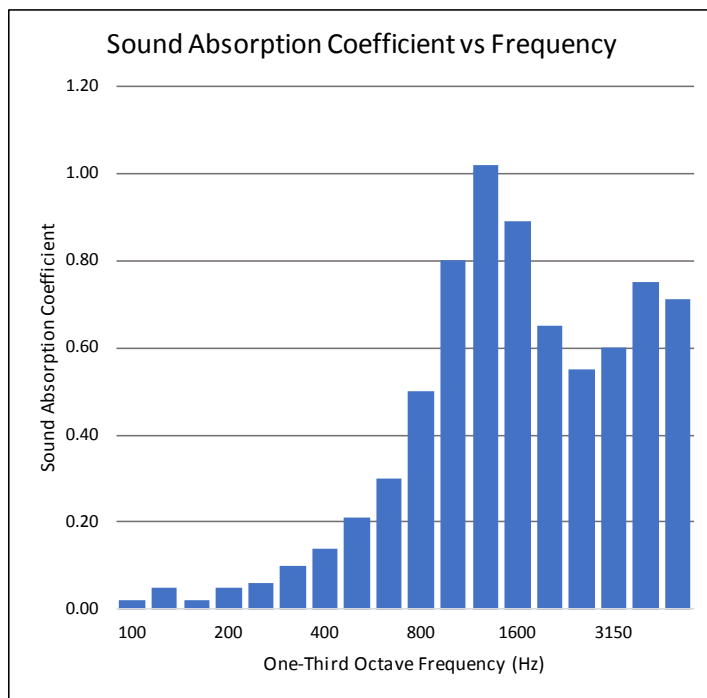
Testing Standard: ASTM C423 A-Mount

Test Date: 10/30/2002

Why this test: This test evaluates a products efficiency of absorbing sound at multiple frequencies. The test simulates the product’s acoustical performance with a direct installation on a wall or ceiling.

Test Result Summary: NRC - 0.45; SAA - 0.44

| NRC | SAA |
|-----------------------|-------------------------------|
| 0.45 | 0.44 |
| Frequency (Hz) | Absorption Coefficient |
| 100 | 0.02 |
| 125 | 0.05 |
| 160 | 0.02 |
| 200 | 0.05 |
| 250 | 0.06 |
| 315 | 0.10 |
| 400 | 0.14 |
| 500 | 0.21 |
| 630 | 0.30 |
| 800 | 0.50 |
| 1000 | 0.80 |
| 1250 | 1.02 |
| 1600 | 0.89 |
| 2000 | 0.65 |
| 2500 | 0.55 |
| 3150 | 0.60 |
| 4000 | 0.75 |
| 5000 | 0.71 |



ASI TEST RESULT DISCLAIMER

ASI makes every effort to ensure the accuracy and reliability of the information provided. Laboratory testing is conducted by independent testing organizations. ASI does not guarantee that field tests or independent tests will not vary.

Filename

Test#1 - 1 PEPP

ASTM C423 - Sound Absorption

Project Folder

0251389

Client

Acoustical Surfaces

Product

Absorption Material

Model #

Quantity

1

Comment

1" PEPP

Sample Size - Wt

95.0 in x 95.5 in x 0 lbs.

Sample Description #

8 Panels - 1" PEPP Arranged in 2 x 4 Fashion :

Time Stamp

Wed. Oct. 30, 2002 - 9:11 AM

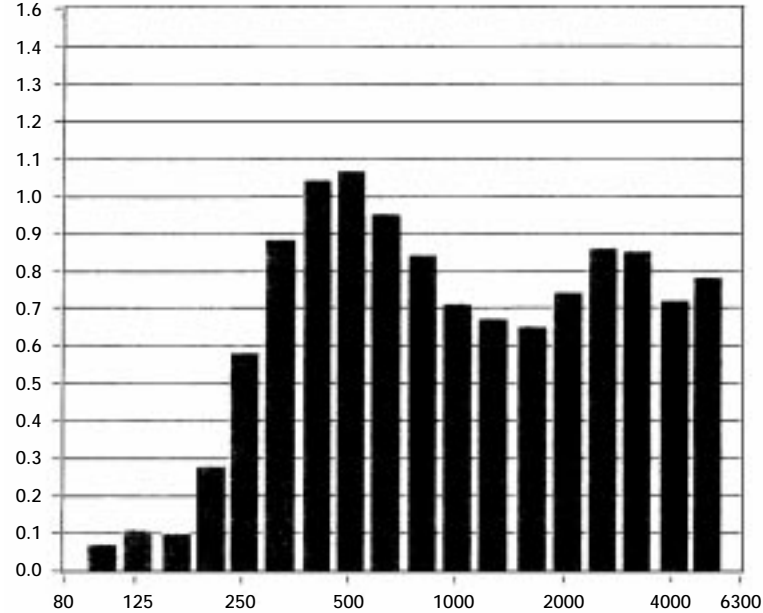
Total Sample Area

63.0 ft²

| F (Hz) | Absorption Coefficient | Absorption (Sabins)* |
|--------|------------------------|----------------------|
| 100 | 0.02 | 1.32 |
| 125 | 0.05 | 3.00 |
| 160 | 0.02 | 1.57 |
| 200 | 0.05 | 3.10 |
| 250 | 0.06 | 3.95 |
| 315 | 0.10 | 6.09 |
| 400 | 1.14 | 8.68 |
| 500 | 0.21 | 13.08 |
| 630 | 0.30 | 18.94 |
| 800 | 0.50 | 31.20 |
| 1000 | 0.80 | 50.28 |
| 1250 | 1.02 | 64.16 |
| 1600 | 0.89 | 56.00 |
| 2000 | 0.65 | 40.90 |
| 2500 | 0.55 | 34.48 |
| 3150 | 0.60 | 37.59 |
| 4000 | 0.75 | 47.39 |
| 5000 | 0.71 | 44.78 |

Absorption Coefficient

Sound Absorption Coefficients



Temp (*C)

22.0

R.H. (%)

63

ATM (mbar)

990

*Total absorption based on 63.0 ft²

$SAA = 0.44$ $NRC = 0.45$